

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
29 September 2005 (29.09.2005)

PCT

(10) International Publication Number  
**WO 2005/090968 A1**

(51) International Patent Classification<sup>7</sup>: **G01N 33/50**,  
A61P 37/06

(21) International Application Number:  
PCT/US2005/008694

(22) International Filing Date: 16 March 2005 (16.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/553,733 16 March 2004 (16.03.2004) US

(71) Applicant (for all designated States except US): **INIST INC.** [US/US]; New Jersey Institute of Technology EDC III, 211 Warren St., Suite 516, Newark, NJ 07103 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **COHEN, David, I.** [US/US]; 64 Willow Avenue, Pelham, NY 10803 (US).

(74) Agents: **CULLMAN, Louis, C.** et al.; Preston Gates & Ellis, LLP, 1900 Main Street, Suite 600, Irvine, CA 92614-7319 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

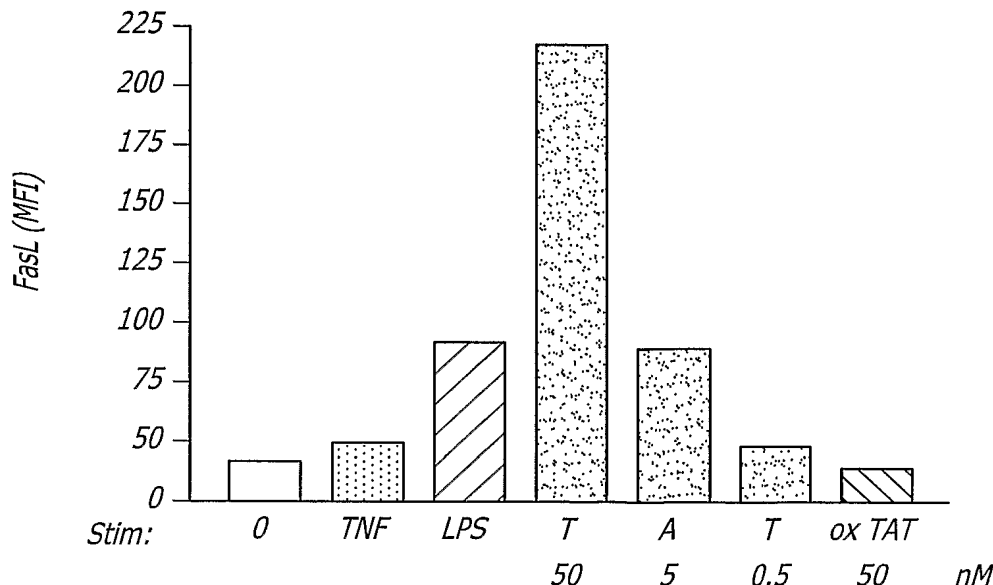
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: TAT-BASED IMMUNOMODULATORY COMPOSITIONS AND METHODS OF THEIR DISCOVERY AND USE



(57) Abstract: A method for identifying new immunomodulatory chemical entities (NICE) comprising reacting a candidate NICE with a Tat SH3 binding domain, identifying the bound candidate NICE and determining whether the candidate NICE induces monocytes to differentiate into dendritic cells (DC) or regulatory macrophages (AReg). In particular, the present invention relates to identifying NICE that are either immunostimulatory or immunosuppressive.

WO 2005/090968 A1